***Florida Timeline 2021-2022***

NASA HUNCH Kick-off Meetings

8/23/21 – Send Design & Prototype Challenge list to teachers

8/24/21 – PBMHS Visit

8/25/21 – SCHS Visit

Design & Prototype Information to Teachers and students. Research links provided on website ([www.hunchdesign.com](http://www.hunchdesign.com)) about the International Space Station, Life living on the space station and in microgravity, and the physics of microgravity. Take notes in your engineering notebook over what you have learned. Review the project power point and begin determining which projects interest you.

Define your problem, research and take notes on those areas.

**9/10/21** – Due date for project selections and defining information. Items due are:

* Project Identification
* List criteria and constraints
* Fill out “Title”, “Define the Problem”, and “Identify Criteria & Constraints” pages of your presentation

9/13/21 to 9/24/21 –

Research your project, brainstorm ideas, and select solution from ideas generated. Develop and propose possible design solutions and choose among those solutions.

9/14/21 – PBMHS Visit

9/15/21 – SCHS Visit

**9/24/21** – Due date for “Research”, “Brainstorm”, “Propose Solution” pages of your presentation

9/27/21 to 10/8/21 –

Generate sketches and/or 3D CAD drawings of your solution. Update your power point with CAD models/drawings that include dimensions. Describe how you think the solution will work. How will the solution be “implemented”?

9/28/21 – PBMHS Visit

9/29/21 – SCHS Visit

**10/8/21** – Due date for 3D CAD drawings or sketches and “Implement Solution” page of your presentation. Add screen shot of your sketches or 3D CAD models.

10/12/21 to 10/22/21 – Generate a more detailed description of how to build and how to use your solution. This will be more like the instructions that come in the box with an item you might buy.

10/12/21 – PBMHS Visit

10/13/21 – SCHS Visit

**10/22/21** – Due date for the “Communicate the Process” page of your presentation. Add details about how your solution works, how to operate it, how to use it, when to use it, etc.

10/25/21 to 11/12/21 –

* build period for 1st prototype and add the “Make your Model” page to your presentation
* Generate a one-page Project Summary (review 2020 Finalist and Semi-finalist Summary sheets from last year for examples of format and content).
* Minimum content needs to include the following information:
  + Project Title
  + School Name
  + Teacher Name
  + Student Names (First and Last names)
  + Brief description of solution
  + Photos of solution
* update all pages of your presentation.
* Add pictures, screen shots of 3D CAD drawings, etc.
* Make sure all information is up to date and ready to present

10/26/21 – PBMHS Visit

10/27/21 – SCHS Visit

**11/12/21** – Due date for first prototype, presentation, and one-page Project Summary Sheet

**11/16/21 – PBMHS Preliminary Design Reviews**

**11/17/21 – SCHS Preliminary Design Review**

11/30/21 – PBMHS Visit

12/1/21 – SCHS Visit

**12/10/21** – Due date for the “Evaluate the Solution” and “redesign” pages of your presentation.

* These slides should include details of feedback from Preliminary Design Review and any other ideas or changes you want to incorporate into your design

12/14/19 – PBMHS Visit

12/15/19 – SCHS Visit

12/13/21 to 1/21/21 –

* Generate new CAD drawings and sketches
* Start building period for final prototype
* detail operation of prototype
* Start adding new details to one page Project Summary Sheet. This summary still needs to include the following information:
  + Project Title
  + School Name
  + Teacher Name
  + Student Names
  + Brief description of solution
  + Photos of solution
* Start working to finalize presentations. Detail prototype descriptions and how your solution works. Be sure to highlight how your solution meets criteria and constraints.

1/11/22 – PBMHS Visit

1/12/22 – SCHS Visit

**1/21/22** – Due date for updated 3D CAD drawings or sketches, and the “Refine the Design” page of your presentation.

1/25/22 – PBMHS Visit

1/26/22 – SCHS Visit

**2/18/22** – Due date for Final Prototype, presentation, and Project Summary Sheet.

**2/22/22 – PBMHS Critical Design Reviews**

**2/23/22 – SCHS Critical Design Reviews**

**3/18/22** – Due date for summary of feedback from CDR. Based on the feedback from the CDR, what would you change or improve about your design? What would you change on your prototype to demonstrate these new changes? We need to know this so that if you are selected as a semifinalist for the Final Design Review, you have a plan in place for the work you have to do to your design and your prototype.

3/7/22 – SCHS Visit (MONDAY)

3/8/22 – PBMHS Visit

**3/XX/22** – Projects selected for Final Design Review at Johnson Space Center will be announced

3/29/22 – PBMHS Visit

3/30/22 – SCHS Visit

**4/xx/22 – Final Design Reviews**

**4/xx/22 – SCHS Final Visit … wrap up for the year**

**4/30/22 – PBMHS Final Visit … wrap up for the year**